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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/849,294

05/19/2004

Frederic Plante

IBM-021

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IBM LOTUS & RATIONAL SW  
c/o GUERIN & RODRIGUEZ  
5 MOUNT ROYAL AVENUE  
MOUNT ROYAL OFFICE PARK  
MARLBOROUGH, MA 01752

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EXAMINER

WEI, ZHENG

ART UNIT

PAPER NUMBER

2192

MAIL DATE

DELIVERY MODE

08/22/2007

PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

## Office Action Summary

Application No.

10/849,294

Applicant(s)

PLANTE, FREDERIC

Examiner

Zheng Wei

Art Unit

2192

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 13 June 2007.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-4, 7, 8, 15 and 16 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-4, 7, 8, 15 and 16 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 5/19/2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- ☒ Notice of References Cited (PTO-892)
- ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- ☐ Information Disclosure Statement(s) (PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_
- ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_
- ☐ Notice of Informal Patent Application
- ☐ Other: \_\_\_\_\_

## **DETAILED ACTION**

### ***Remarks***

1. This office action is in response to the amendment filed on 06/13/2007.
2. Claims 5, 6, 9-14, 17 and 18 have been canceled.
3. Claims 1, 7 and 15 have been amended.
4. The 35 U.S.C. 101 rejection to claims 11-14 is withdrawn in view of the cancellation of claims 11-14
5. Claims 1-4, 7-8 and 15-16 remain pending and have been examined.

### ***Response to Arguments***

6. Applicant's arguments filed on 06/13/2007, in particular on pages 8-9, have been fully considered and are persuasive. Therefore, the rejection to claims 1-4, 7-8 and 15-16 in previous office action is withdrawn

### ***Claim Objections***

7. Claims 3 and 4 are objected to because of the following informalities:  
  
Claims 3 and 4: Acronym, like UML and 3GL in the claims above, which needs to be spelled out once in the claims, as their claimed intermediate meanings tend to change over the time

Appropriate correction is required.

***Claim Rejections - 35 USC § 102***

8. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

9. Claims 1-4, 7-8 and 15-16 are rejected under 35 U.S.C. 102(b) as being anticipated by Coad (Coad et al., US 6,851,107 B1)

Claim 1:

Coad discloses a method/system for synchronizing a first artifact and a second artifact, the first and second artifacts being interdependent and concurrently modified, the first and second artifacts each having a plurality of elements and being of different formats, the method comprising:

- Performing a reverse engineering operation to generate a temporary artifact having all the elements of a last synchronized version of the first artifact and having all the elements of a latest version of the second artifact transformed as the first artifacts (see for example, Fig.1, step 102 “UML”-step 108 ->step 108 “Repository”->step 110 “Code Generator->step 104 “Source Code” and related text; also see Fig.2, step 202 “Source Code” ->step 200 “Transient Meta Model” -> step 208 “Incremental Code Editor” -> step 203 “Source Code” and related text)

- merging the temporary artifact and a latest version of the first artifact to create a synchronized version of the first artifact (see for example, Fig.2, steps 205, 205 -> step 208 "Incremental Code Editor" -> step 203 "Source Code" and related text); and
- performing a forward engineering operation to generate a synchronized version of the second artifact having all the elements of the latest version of the second artifact and having all the elements of the synchronized version of the first artifact transformed as the second artifact (see for example, Fig.1, step 104 "source code" -> step 106 "Reverse Engineering Module" ->step 108 "Repository"->step 102 "UML"-step 108 ->step 110 "Code Generator->step 104 "Source Code" and related text; also see Fig.2, step 202 "Source Code" ->step 200 "Transient Meta Model" -> step 208 "Incremental Code Editor" -> step 203 "Source Code" and related text)

Claim 2:

Coad also discloses the method/system of claim 1 wherein one of the first and second artifacts is a software model artifact and the other of the first and second artifacts is a code artifact (see for example, Fig.1, step 104 "Source Code", step 102 "UML"; also see Fig.2, step 202 "Source Code", step 200 "Transient Meta Model" and related text)

Claim 3:

Coad further discloses the method of claim 2, wherein the software model artifact is a UML file (see for example, Fig.1, step 102 "UML" and related text; also see col.15, lines 54-55, "Further, although the present invention is described and shown using the various views of the UML...")

Claim 4:

Coad also discloses the method of claim 2, wherein the code artifact is a 3GL source file. (see for example, Fig.13, the example screenshot including UML model and 3GL source code (Java source code))

Claims 7-8:

Claims 7-8 are computer program products version of the claimed method, wherein all claimed limitation functions have been addressed in claims 1 and 2 above respectively. (see for example, col.3, lines 3-23, "computer-readable medium" and related text). Therefore, they also would have been anticipated by Coad.

Claims 15-16:

Claims 15-16 are system version for performing the claimed method as in claims 1 and 2 addressed above, wherein all claimed limitation functions have been addressed and/or set forth above (see for example, Fig.6, data processing

system suitable for practicing the present invention and related text). Thus, they also would have been anticipated by Coad.

### ***Conclusion***

10. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Zheng Wei whose telephone number is (571) 270-1059 and Fax number is (571) 270-2059. The examiner can normally be reached on Monday-Thursday 8:00-15:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tuan Q. Dam can be reached on (571) 272-3695. The

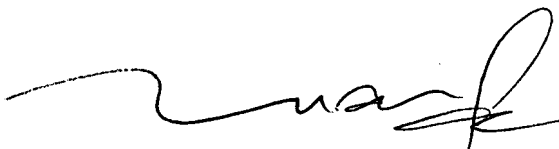
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fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Any inquiry of a general nature of relating to the status of this application or proceeding should be directed to the TC 2100 Group receptionist whose telephone number is 571- 272-1000.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

ZW



TUAN DAM  
SUPERVISORY PATENT EXAMINER